

NDT Inspection https://tuboafrica.nov.com/



Client Suez Canal Container Terminal

RTG Crane

CR 16

Location Port Said

Date of Inspection September 21, 2017

> Work Order No. SO-019839



Tuboscope Vetco International - Egypt Branch



1	Summary Of Inspection
2	Defect Reports
3	Reports
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Summary of Inspection

Client : Suez Canal Container Terminal (SCCT)

Location : STS Crane # CR 16- Port Said

Scope of work: NDT Inspection according to Structural

Maintenance Program, AWS D1.1, ASTM E709

&Tuboscope Standard Working Procedures.

Date of Inspection: 21/09/2017 to 25/09/2017

Project Summary:

The work included NDT survey (Visual, MPI and UT) to create a safe work place.

Visual Testing was carried out on all bolted and welded joints in areas free of dirt and grease.

Magnetic Particle Testing areas were cleaned using power tools (buffing) and inspected using magnetic field (Permanent Magnet).

Ultrasonic Testing were carried out in areas confirmed by standards and specification of Ultrasonic testing.

Inspection report includes sketches from the Maintenance program, photos, Inspection location, method of testing, and conclusion.

All areas where paint has been removed were repainted after inspection was completed.

During inspection found cracks in 10 areas, mentioned in our defect report. Any cracks shall be unacceptable, regardless of size or location as per AWS D1.1. These cracks shall be repaired before putting crane back into service using manufacture's repair procedure/recommendation.

Regards,

Mohamed Asaad (NDT Team)

Tamer Salah (Rope Access Team)

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SCCT (CR-16)	Plc. of defect					Н
Gustomer W.O. No. Work location	Inspector	M. Asaad				Wellbyke Technologies
Attached Report	Defect description	2 EA CRACKS MIN 3 cm	OUSE SIDE (FRONT)			
SO-019839 SUEZ CANAL CONTAINER TERMINAL	Exact location	NO-1 RIGHT LEG OF ELECTRIC HOUSE SIDE (FRONT)	RIGHT LEG OF ELECTRIC HOUSE SIDE (FRONT)			
T.V.I Work Order No. : Customer ;	DRAW NO. :	DRAW NO.JL1190301A		Noesh Crack Crack Free Ree F		
	# DATE	O 2209/2017		S S S S S S S S S S S S S S S S S S S	2	7

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SCCT (CR-16)	Pic. of defect					Sol
Customer W.O. No. Work location	Inspector	M. Asaad				S CO
Attached Report	Defect description	03 EA CRACKS MIN 4 cm & MIX 6 cm	IOUSE SIDE (REAR)			
SO-019839 SUEZ CANAL CONTAINER TERMINAL	Exact location	NO-1 RIGHT LEG OF ELECTRIC HOUSE SIDE (REAR)	RIGHT LEG OF ELECTRIC HOUS	RE.R.		
T.V.I Work Order No. : Customer :	DRAW NO.:	DRAW NO.JL1190301A	u.	R. R		
	# DATE	0 22/09/2017		CR. R. R. L.	8	

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SCCT (CR-16)	Pic. of defect					
Gustomer W.O. No. Work location	Inspector	M, Asaad				SCO B SCO B STORY OF THE BESSEL SCO B SCO
Attached Report	Defect description	03 EA CRACKS MIN 2 cm & MIX 4cm	SE SIDE (IN SIDE)		E SIDE (RAER)	Tubo See
SO-019839 SUEZ CANAL CONTAINER TERMINAL	Exact location	NO-2 RIGHT LEG OF DIESEL HOUSE SIDE (IN SIDE & RAER)	RIGHT LEG OF DIESEL HOUSE SIDE (IN		RIGHT LEG OF DIESEL HOUSE SIDE (RAER	
T.V.I Work Order No. : Customer :	DRAW NO.:	DRAW NO.JL1190301A		CRAK STANK		
	DATE	2309/2017		R. Aires Jp.		

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SCCT (CR-46)	Pic. of defect					
Customer W.O. No. Work location	Inspector	M. Asaad		en O		LIOSCONOCE Whiteocogie Egypt Branch 15
Attached Report	Defect description	(05 EA CRACKS MIN 2 cm & MIX 5 cm)	USE SIDE (FORNT)	R.D.C.		Egy
SO-d19839 SUEZ CANAL CONTAINER TERMINAL	Exact location	NO-2 RIGHT LEG OF DIESEL HOUSE SIDE (FORNT)	RIGHT LEG OF DIESEL HOUSE			
T.V.I Work Order No. : Gustomer :	DRAW NO.:	DRAW NO.JL1190301A		SO S		
	# DATE	0 23009/2017			N	

Attached Report

SCCT (CR-16)	Pic. of defect				
Customer W.O. No. Work location	Inspector	M. Asaad			DOSCONO SONO SONO SONO SONO SONO SONO SON
Attached Report	Defect description	01 EA CRACK 7am	SIDE (FRONT)		
18838 SUEZ CANAL CONTAINER TERMINAL	Exact location	LEFT LEG NO-3 OF ELECTRIC HOUSE SID (FRONT)	LEFT LEG ELECTRIC HOUSE SIDE (FRONT)		
T.V.I Work Order No. : Custamer:	DRAW NO.:	DRAW NO.JL1190301A			
	# DATE	0 22/09/2017		No. 1 L. E. F. CRACKYON	2

SCOT (CR.16)	Plc. of defect					- Carren
Customer W.O. No. Work location	Inspector	M. Asad				
Attached Report	Defect description	04 EA CRACKS MIN 3 cm & MIX 5 cm	SE SID (RAER)		E SID (FRONT)	
18839 SUEZ CANAL CONTAINER TERMINAL	Exact location	NO-04 LEFT LEG OF DIESEL HOUSE SID (FRONT & RAER)	LEFT LEG OF DIESEL HOUSE SID (RAER)		LEFT LEG OF DIESEL HOUSE SID (FRONT	
T.V.I Work Order No. : Gustomer:	DRAW NO.;	DRAW NO.JL1190301A		We:7		No.23
	# DATE	Q 23002017				New York

SCCT (CR-16)	Pic. of defect					
Customer W.O. No. Work location	Inspector	M. Asad			UDOSCAPE Welfbuers Technologies	
Attached Report	Defect description	01 EA GRACK 4 om	E SID (IN SIDE)		CO A STATE OF THE PARTY OF THE	
19839 Suez Canal Container Terminal	Exact location	LEFT LEG NO4 OF DIESEL HOUSE SID (IN SIDE)	LEFT LEG OF DIESEL HOUSE SID (IN SIDE)			
T.V.! Work Order No. : Customer:	DRAW ND. ;	DRAW NO.JL1190301A				
	DATE	710058007		L p. 105 1 de cRacktycm.		
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T.V.I Work Order No. :

Defects summery report

SCCT (CR-16)	Ptc, of defect	WASHERS WASHERS WASHERS WASHERS WASHERS	(CHAIN MECHAISM)		
Customer W.O. No. Work location	Inspector	M. Asaad	TED ON THE ENERGY	R.140-5 8 CM	UBOSCODO Worldwiger Egypt Branch 18
Defects suffillery report	Defect description	05 EA CRACKS MIN 2 cm & MIX 8 cm	RAILS OF THE TROLLEY RUNWAY ARE LOCATED ON THE ENERGYCHAIN MECHAISM)	4-2-4 2-4-4	
19839 SUEZ CANAL CONTAINER TERMINAL	Exact location	RIGHT RAILS OF THE TROLLEY RUNWAY ARE LOCATED ON THE ENERGYCHAIN MECHAISM	RIGHT RAILS OF THE TROL	R-40-3 5cm	
T.V.I Work Order No. : Customer :	DRAW NO.:	DRAW NO-JL11908		R-W-Z	
	DATE	0 22/09/2017		R-44-1	

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	SCCT (CR-18)	Pie. of defect		YCHAIN MECHAISM)			Technologies Ecvot Brench 15
Customer W.D. No.	rk location	Inspector	MASAAD	TED ON THE ENERGY			
Defects summery report	W0	Defect description	6 EA CRACKSS MIN 5 cm à MIX 20 cm	LEY RUNWAY ARE LOCA			
19839	JEZ CANAL CONTAINER TERMINAL	Exact location	LEFT RAILS OF THE TROLLEY RUNWAY ARE LOCATED ON THE ENERGYCHAIN MECHAISM	(LEFT RAILS OF THE TROLLEY RUNWAY ARE LOCATED ON THE ENERGYCHAIN MECHAISM)			
T.V.I Work Order No. :		DRAW NO.;	DRAW NO-JL11908)			
	Ŋ	# DATE	7.0000002		1-41-	2	

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Defects summery report Customer W.O. No. Work location

SCCT (CR-16)	Pic. of defect		LEFT ELECTRIC HOUSE SIDE CANTRY TRAVELING MECHANISM - Idel carrage JL-1190106	OSCODE Wellton
Work location	Inspector	M. Asaad	TRY TRAVELING MECHA	58 Francisco
) ×	Defect description	1 EA CRACK 12 CM	CTRIC HOUSE SIDE CAN	
SUEZ CANAL CONTAÎNER TERMÎNAL	Exact location	LEFT ELECTRIC HOUSE SIDE CANTRY TRAVELING MECHANISM - Idel carrage JL- 1190106	LEFT ELE	
Customer:	DRAW NO.:	DRAW NO-JL11901-1		6-18 0000
	# DATE	25609/2017		

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SCCT (CR-16)	Pic. of defect			SCONE Wellborg Technologies
Work location	Inspector	M. Asaad	ER)	
	Defect description	1 EA CRACK 4 cm	SUPPORT B6 (OUTER)	
SUEZ CANAL CONTAINER TERMINAL	Exact location	RIGHT DIESEL HOUSE SIDE MOTOR SUPPORT B6 OUTER)	RIGHT DIESEL MOTOR SUPPORT	
Customer:	DRAW NO.:	DRAW NO.JL11901B		SANS SANS SANS SANS SANS SANS SANS SANS
	# DATE	0 25(092C)7		

Tuboscope | New Wellbore Technologies 1833 Customer: SUEZ CANAL CONTAINER TERMINAL

Defects summery report

SCCT (CR-16)

SCCT (CR-16)	Pic. of defect			Tuboscon Fedinologie Egypt Branch 16
Work location	Inspector	M. Asaad	SIDE)	
	Defect description	1 EA GRACK 2 cm	SUPPORT B6 (IN S	
SOEZ CANAL CONTAINER TERMINAL	Exact location	RIGHT DIESEL HOUSE SIDE MOTOR SUPPORT B6 (IN SIDE)	RIGHT DIESEL MOTOR SUPPORT B6 (IN SIDE)	
	DRAW NO.:	DRAW NO.JL11901B		S. S
	# DATE	25/06/2017		



Defects summery report

SCCT (CR-16)	Pic. of defect			SCO CO C
Work location	Inspector	M. Asaad)E)	TOP SO STANDARD SO
	Defect description	1 EA CRACK 2 cm	JPPORT B6 (IN SIDE)	
SUEZ CANAL CONTAINER TERMINAL	Exact location	LEFT DIESEL HOUSE SIDE MOTOR SUPPORT B6 (IN SIDE)	LEFT DIESEL MOTOR SUPPORT B6	
Customer :	DRAW NO.:	DRAW NO.JL11901B		
	# DATE	2409/2017		



SCCT (CR-16)	Pic. of defect			SCODE Wellbore
Work location	Inspector	M. Asaad	ER)	THE SCOPE SCOPE STATE OF THE SCO
	Defect description	1 EA CRACK 2 om	UPPORT B6 (OUTER)	
SUEZ CANAL CONTAINER TERMINAL	Exact location	LEFT DIESEL HOUSE SIDE MOTOR SUPPORT B6 (OUTER)	LEFT DIESEL MOTOR SUPPORT	
Customer :	DRAW NO.:	DRAW NO.JL11901B		L.U.S. S.
	# DATE	0 24/08/2017		

Tuboscope Ress Taxiwak Orde No. : 1888 Customer : Sulez canal Container Terminal

Defects summery report

SCCT (CR-16)	Pic. of defect			DOSCO DO CESTA DE LA CONTRACTOR SON BEAR OF SON BEAR O
Work location	Inspector	M. Asaad	JTER)	
	Defect description	1 EA GRACK 5 cm	SUPPORT B6 (OI	
SUEZ CANAL CONTAINER TERMINAL	Exact location	LEFT ELECTRIC HOUSE SIDE MOTOR SUPPORT B6 (OUTER)	LEFT ELECTRIC MOTOR SUPPORT B6 (OUTER)	
Customer:	DRAW NO.:	DRAW NO.JL11901B		SES
	# DATE	24/09/2017		



Defects summery report Gustomer WO. No. Work location

SCCT (CR-16)	Pic. of defect			SCODE Velikoro Schologia Lanch 16
Customer W.O. No. Work location	Inspector	M. Asaad	(OUTER)	
	Defect description	1 EA CRACK 5 cm		
19839 SUEZ CANAL CONTAINER TERMINAL	Exact location	LEFT ELECTRIC HOUSE SIDE MOTOR SUPPORT B6 (OUTER)	LEFT ELECTRIC MOTOR SUPPORT B6	
TV.I Work Order No. : Customer :	DRAW NO.:	DRAW NO.JL11901B		SHA
	# DATE	0 2409/2017		N

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Defects summery report

SCCT (CR-16)	Plc. of defect			SOSOS SOSOS SOS SOS SOS SOS SOS SOS SOS
Customer W.O. No. Work location	Inspector	M. Asaad	UTER)	
	Defect description	1 EA CRACK 6 om	R SUPPORT B6 (C	
19839 SUEZ CANAL CONTAINER TERMINAL	Exact location	RIGHT ELECTRIC HOUSE SIDE MOTOR SUPPORT B6 (OUTER)	RIGHT ELECTRIC MOTOR SUPPORT B6 (OUTER)	
I.V.I Work Order No. : Customer :	DRAW NO.:	DRAW NO.JL11901B		S.E.S. S.
	# DATE	0 24/09/2017		

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Defects summery report

Customer W.O. No.

Work location

SCCT (CR-16)

SCCT (CR-16)	Pic. of defect			
Work location	Inspector	M. Asaad		The Branch 16
	Defect description	01 EA CRACK 6 CM	DRUM ASS	
SUEZ CANAL CONTAINER LERMINAL	Exact location	DRUM ASS		
To Talloran	DRAW NO. ;	DRAW NO-JL119060801		
	# DATE	0 2409/2017		

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T.V.I Work Order No. : Customer :

DRAW NO.:

DATE

19839 SUEZ CANAL CONTAINER TERMINAL

Defects summery report
Customer WO. No.
Work location

SCCT (CR-16)

Pic. of defect M. Asaad 1 EA CRACK 3 cm REDUCER BASE Exact location

DRAW NO-JL9060804

23/09/2017



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Tal Work Order No.: SO-019839

CUSTOMBER: SUEZ CANAL CONTAINEN TERMINAL

Defects summery report
Customer W.O. No.
Work location

SCCT (CR-16)			1190401	
SCCT			R SUPPORT JL-	CODE
Work location	Inspector	M. Asaad	CYLINDER - CYLINDER	C C C C C C C C C C C C C C C C C C C
	Defect description	2 EA CRACKS (Length = 2 cm & 4 cm	SIDE STEERING & LOCKING CYLINDER - CYLINDER SUPPORT JL-1190401	LI SE
SUEZ CANAL CONTAINER TERMINAL	Exact location	LEFT ELECTRIC HOUSE SIDE STEERING & LOCKING CYLINDER - CYLINDER SUPPORT JL-1190401	LEFT ELECTRIC HOUSE SID	
Customer:	DRAW NO.:	DRAW NO-JL1190104-A		
	# DATE	0 25/08/2017		MAERSK

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Defects summery report

SCCT (CR-16)			L-1190401	AND TO COMPANY AND
			& LOCKING CYLINDER - CYLINDER SUPPORT JL-1190401	
Work location	Inspector	M. Asaad	YLINDER - CYLINI	D A D A D A D A D A D A D A D A D A D A
5	Defect description	3 EA CRACKS Length From 2cm TO 3cm TO 2 cm	SIDE STEERING & LOCKING C	
SUEZ CANAL CONTAINER TERMINAL	Exact location	LEFT DEISEL HOUSE SIDE STEERING & LOCKING CYLINDER - CYLINDER SUPPORT JL-1190401	LEFT DEISEL HOUSE SIDE	
	DRAW NO.:	DRAW NO-JL1190104-A		Res
	# DATE	25/09/2017		

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Defects summery report
Customar W.O. No.
Work location

SCCT (CR-16)

SCCT (CR-16)			SUPPORT JL-1190401	ECO DE REMINISTE
Work location	inspector	M. Asaad	YLINDER - CYLINDER	
Wc	Defect description	3 EA CRACKS Length From 4cm & 3cm & 3cm	SIDE STEERING & LOCKING CYLINDER - CYLINDER SUPPORT JL-1190401	WAERS WAERS WAERS
SUEZ CANAL CONTAINER TERMINAL	Exact location	RIGHT DEISEL HOUSE SIDE STEERING & LOCKING CYLINDER - CYLINDER SUPPORT JL-1190401	RIGHT DEISEL HOUSE SID	
customer	DRAW NO.:	DRAW NO-JL1190104-A		
	# DATE	7280862607		THE REAL PARTY AND THE PARTY A



Block 280,90 st, AlTagamoa AlKhames Pc 11853, New Cairo, (Cairo Egypt) Tel. (00202)-26134591 - 26134592 02 26134594 Fax: (00202)26134594

		The state of the s
T.V.I Work Order	No.: SO-019839	Date of Inspection: 21/09/2017
Customer:		ERMINAL Inspection Report No.: 01
Work Location:		Customer W.O. No.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec	☑ Other AWS D1.1.& ASTM E.709 Edition : 2010 & 2015
Inspection metho	od: 🗆 Wet 🗀 Dry 🗀 Dye Penetrant	☐ Other BLACK INK AND WHITE CONTRAST
Equipment used:		Other PERMANENT MAGNET
	No:No:No:	No: 0646.8.00399_
Extent:	Welding Areas	
Serial no:	Description:	
DRAW NO.JL1080202	KNEE BRACE OF SIDE WITH BRID	GE GIRDERS
esults:		*
	NDT Inspection was samial and	ovoilable welling and C. D.
		available welding area for above description
** VISUAL:		
	Visual Inspection of well:	avece found from from a sufficient
	visual hispection of weighing	areas found free from surface defects
		ACCEPTED
** MPI	I convice out on excitable 14:	
IVII -		ng areas and found free from surface crack at
		.or inspection
-		ACCEPTED
MT.WELDS		
	Osama Sobhy	TUDOSOQIO M. Asaad
f this report is only allowed by of TVI representative 3 Rev. 0 Date: 01.01.2011	Supervisor	Technologi Inspector Egypt Branch 16



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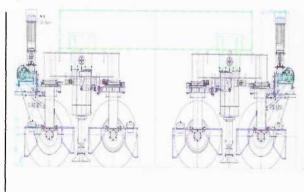
T.V.I Work Order Customer: Work Location:		Date of Inspection: ERMINAL Inspection Report No. Customer W.O. No.:	21/09/2017 : 02 CONTRACT
Specification:		Other AWS D1.1.8 ASTM E 709 Edition	
Equipment used:		○ Other BLACK INK AND WHITE CO ○ Other PERMANENT MAGNET No: 0546 & 00399	NTRAST
Extent:	Welding Areas		
	Description:		
RAW NO.JL-1190305	TWO SILL BEAMS		
** VISUAL :		n available welding area for above de and found :	scription
	Visual Inspection of welding	g areas found free from surface de	fects
		ACCEPTED	
** MPI MP		ng areas and found free from surf e of inspection	ace crack at
		ACCEPTED	
	MT WELDS 95		TARE DELL
fthis report is solve II.	Osama Sobhy	Tubosqop M. A	saad
f this report is only allowed by of TVI representative 3 Rev. 0 Date: 01.01.2011	Supervisor	Technologijnspe Egypt Branch 46	ctor



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Non destructive Test (NDT) Report

T.V.I Work Order Customer: Work Location:	No.: SO-019839 Date of Inspection: 21/09/2017 SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 03 SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification: Inspection methor Equipment used: Extent:	□ API □ DS1 □ Customer spec. ☑ Other AWS D1.1 & ASTME 709
Serial no: DRAW NO-JL11901	Description: CANTRY TRAVELING MECHANISM
results:	NDT Inspection was carried out on available welding area for above description and found :
	Visual Inspection of welding areas found free from surface defects
** MPI MP	ACCEPTED I carried out on available welding areas and found free from surface crack at
	time of inspection ACCEPTED





Osama Sobhy

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Supervisor





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Non destructive Test (NDT) Report

	()
T.V.I Work Order	r No.: SO-019839 Date of Inspection: 21/09/2017
Customer:	SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 04
Work Location:	SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ☐ Other AWS D1.1 & ASTME 709 Edition: 2010 & 2015
Inspection metho	od: ☑ Wet ☐ Dry ☐ Dye Penetrant ☑ Other BLACK INK AND WHITE CONTRAST
Equipment used	: ☐ UV light ☐ AC yoke ☐ DC coil ☒ Other PERMANENT MAGNET
	No:No:No:No:No: 0646 & 00399
Extent:	Welding Areas
Serial no:	Description:
	STAIRS ON THE ELECTRIC HOUSE SIDE
Results:	
	NDT Inspection was carried out on available welding area for above description
** VISUAL :	and found :
VISUAL:	
	Visual Inspection of welding areas found free from surface defects
	ACCEPTED
** MPI	
MIF	PI carried out on available welding areas and found free from surface crack at time of inspection
	ACCEPTED
AJT.	MT WELD CR 16

Osama Sobhy

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Customer: SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 05	17				
Specification: API DS1 Customer spec. Other AWSD1.1& ASTME 709 Edition: 2010. & 20 Inspection method: Wet Dry Dye Penetrant Other BLACK.INK AND WHITE CONTRAST Equipment used: UV light AC yoke DC coil Other PERMANENT MAGNET No: No: No: No: No: No: No: Other PERMANENT MAGNET No: No: No: Other PERMANENT MAGNET No: No: No: Other PERMANENT MAGNET					
Specification: API DS1 Customer spec. Other AWS.D1.1.& ASTME.709 Edition: 2010. & 2010. & 2010. Edition Method: Wet Dry Dye Penetrant Other BLACK.INK. AND. WHITE CONTRAST Equipment used: UV light AC yoke DC coil Other PERMANENT. MAGNET No: No: No: No: No: No: Other PERMANENT. MAGNET No: No: No: No: Description: No: No: No: Description: SUB NO. JL-1190306 BUFFER STOPPER (GANTRY FRAME) DRAW NO-11903A Lesults: NDT Inspection was carried out on available welding area for above description and found: Wisual Inspection of welding areas found free from surface defects ACCEPTED MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED ACCEPTE		Inspection Report No.: 05	ER TERMINAL	SUEZ CANAL CONTAI	Customer:
Inspection method: Wet Dry Dye Penetrant Other BLACK JNK AND WHITE CONTRAST Equipment used: UV light AC yoke DC coil Other PERMANENT MAGNET No: No: No: No: No: No: No: No:	\CT	Customer W.O. No.: CONTRACT	16)	SCCT (CF	Work Location:
Extent: Welding Areas Serial no: Description: SUB NO. JL-1190306 BUFFER STOPPER (GANTRY FRAME) DRAW NO-11903A Results: NDT Inspection was carried out on available welding area for above description and found: ** VISUAL: Visual Inspection of welding areas found free from surface defects ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED	015	NS D1.1 & ASTM E 709 Edition: 2010 & 2015	spec. 🛛 Other ^k	☐ API ☐ DS1 ☐ Custom	Specification:
Extent: No: No: No: No: No: 0646 & 003999. Serial no: Description: SUB NO. JL-1190306 BUFFER STOPPER (GANTRY FRAME) DRAW NO-11903A Results: NDT Inspection was carried out on available welding area for above description and found: ** VISUAL: Visual Inspection of welding areas found free from surface defects ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED		ACK INK AND WHITE CONTRAST	rant 🗵 Other Bl	od: 🛛 Wet 🔲 Dry 🔲 Dye Pen	Inspection metho
Extent: No: No: No: No: No: 0646 & 003999. Serial no: Description: SUB NO. JL-1190306 BUFFER STOPPER (GANTRY FRAME) DRAW NO-11903A Results: NDT Inspection was carried out on available welding area for above description and found: ** VISUAL: Visual Inspection of welding areas found free from surface defects ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED		PERMANENT MAGNET	C coil 🛛 Other	I: ☐ UV light ☐ AC yoke ☐	Equipment used:
Serial no: SUB NO. JL-1190306 BUFFER STOPPER (GANTRY FRAME) DRAW NO-11903A lesults: NDT Inspection was carried out on available welding area for above description and found: ** VISUAL: Visual Inspection of welding areas found free from surface defects ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED					
SUB NO. JL-1190306 BUFFER STOPPER (GANTRY FRAME) DRAW NO-11903A Results: NDT Inspection was carried out on available welding area for above description and found: ** VISUAL: Visual Inspection of welding areas found free from surface defects ACCEPTED ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED				Welding Areas	Extent:
NDT Inspection was carried out on available welding area for above description and found: ** VISUAL: Visual Inspection of welding areas found free from surface defects ACCEPTED ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED				Description:	Serial no:
NDT Inspection was carried out on available welding area for above description and found: ** VISUAL: Visual Inspection of welding areas found free from surface defects ACCEPTED ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED		NO-11903A	FRAME) DRAW	BUFFER STOPPER (GANTR	
** VISUAL: Visual Inspection of welding areas found free from surface defects ACCEPTED ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED			*		lesults:
** VISUAL: Visual Inspection of welding areas found free from surface defects ACCEPTED ** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED		velding area for above description	ut on available	NDT Inspection was carried	
** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED ACCEPTED					ded. WYMONY
** MPI MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED			444		** VISUAL:
MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED		nd free from surface defects	ding areas fou	Visual Inspection of w	
MPI carried out on available welding areas and found free from surface crack time of inspection ACCEPTED			ACCEPTEI		
ACCEPTED ACCEPTED					
ACCEPTED	at	d found free from surface crack at	elding areas a	PI carried out on available	MP
# Parallal w		ion	time of inspec		
# CONTACT AND ADDRESS OF THE PARTY OF THE PA			ACCEPTEI		
JI. 1190306 Buffer Support 5					
A final support				TARRES B. Mar Command B	10 1
		This was a second		1190306 Buffer Support	R.I.
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	100			17.6	
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				TO THE REAL PROPERTY.	
	17 EC. W				
Osama Sobhy Asaad		The state of the s			
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Rev. 0 Date: 01.01.2011	M	The state of the s	_ 4		f TVI representative



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T.V.I Work Order Customer: Work Location:		Date of Inspection: ERMINAL Inspection Report No Customer W.O. No.:	
Specification: Inspection method Equipment used: Extent:	od: 🗆 Wet 🗆 Dry 🗀 Dye Penetrant	Other AWS D1.1.& ASTME 709 Edition Other BLACK INK AND WHITE CO Other PERMANENT MAGNET No: 0646 & 00399	ONTRAST
Serial no:	Description:		
SUB. NO -1190302	BRACE BAR (GANTRY FRAME)	DRAW NO-11903A	
** VISUAL:		and found : g areas found free from surface d	efects
** MPI		ACCEPTED ng areas and found free from sur	
		e of inspection ACCEPTED	
	IL 1190302 Brace Bar		
	Osama Sobhy	MA	saad
f this report is only allowed by of TVI representative 3 Rev. 0 Date: 01.01.2011	Supervisor	Wellbordnspe Technology Egypt Branch 16	ector



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T.V.I Work Orde		Date of Inspection:	22/09/2017
Customer:	SUEZ CANAL CONTAINER TERMINA	L Inspection Report No.:	07
Work Location:	SCCT (CR- 16)	Customer W.O. No.:	CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ☐ Other	er AWS D1.1 & ASTM E 709 Edition:	2010 & 2015
Inspection meth	od: ⊠ Wet □ Dry □ Dye Penetrant ⊠ Other	BLACK INK AND WHITE CON	TRAST
Equipment used	: ☐ UV light ☐ AC yoke ☐ DC coil ☐ Othe	er PERMANENT MAGNET	
	No:No:No:No:No:	646 & 00399	
Extent:	Welding Areas		
Serial no:	Description:		
DRAW NO-JL11906	TROLLEY ARRANGEMENT		
lesults:			
	NDT Inspection was carried out on availab	ale welding ones for about	
	and four		cription
** VISUAL:			
	Visual Inspection of walding	found fund f	2-4
	Visual Inspection of welding areas f	tounu tree from surface def	ects
	ACCEPT	ГЕD	
** MPI	DI comical out on available well:	16 16 6 0	
IVI	PI carried out on available welding areas time of insp		ice crack at
	tine or mst	ACCION	
	ACCEPT	TED	
			· ·
			一 三
man.	FEA. 12		15
ATRIC			
		II A	
	3 10		
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The second second	TO THE RESERVED		
		100	
			11/1/1
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			THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS
	Osama Sobhy	Tubescope	aad



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Non destructive Test (NDT) Report

T.V.I Work Order Customer: Work Location:	No.: SO-019839 Date of Inspection: 22/09/2017 SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 08 SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification:	□ API □ DS1 □ Customer spec. □ Other AWS D1.1.8 ASTM E 709 Edition: 2010 & 2015
Inspection metho	d: ⊠ Wet □ Dry □ Dye Penetrant ⊠ Other BLACK INK AND WHITE CONTRAST
Equipment used:	
Extent:	No:No:No:No: 0646 & 00399_
Extent.	Welding Areas
	Description:
-	ONE BRIDGE GIRDERS
lesults:	
	NDT Inspection was carried out on available welding area for above description
** VISUAL:	and found :
1110/41	
	Visual Inspection of welding areas found free from surface defects
	ACCEPTED
** MPI	
MP)	L carried out on available welding areas and found free from surface crack at time of inspection
	ACCEPTED
	Osama Sobhy M. Asaad
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T.V.I Work Orde Customer: Work Location:		R TERMINAL	Date of Inspection: Inspection Report No.: Customer W.O. No.:	22/09/2017 09 CONTRACT
Specification: Inspection meth Equipment used	☐ API ☐ DS1 ☐ Customer s od: ☑ Wet ☐ Dry ☐ Dye Penetra : ☐ UV light ☐ AC yoke ☐ DC	ant 🗵 Other B	LACK INK AND WHITE CON	
Extent:	No:No:No: _ Welding Areas	No: ^{0646.8}	a. 00399 _	
Serial no:	Description:		77.00	
DRAW NO-JL1190606	OPERATOR CAP			
lesults:		2	· Mate	
	NDT Inspection was constal	it on available	wolding one C 1	• ,•
	NDT Inspection was carried or			cription
** VISUAL:	ų.			
-	Viewal Inc the C 1:	1:	16 6	
	Visual Inspection of weld	ung areas tou	ina tree trom surface def	ects
		ACCEPTE	D	
** MPI				
MI	PI carried out on available we			ice crack at
		time of inspec	ction	
		ACCEPTE	D	
MT.WELDS				
- TV-				
T	Osama Sobhy		M. As	aad



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02 26134594 Fax: (00202)26134594

	r No.: SO-019	839	Date of Inspection:	22/09/2017
Customer:	SUEZ CANAL CONTAIN	NER TERMINAL	Inspection Report No	
Work Location:			Customer W.O. No.:	CONTRACT
Specification:	☐ API ☐ DS1 ☐ Custome	er spec. 🛛 Other	AWS D1.1 & ASTM E 709 Edition	1: 2010 & 2015
Inspection meth	od: 🛛 Wet 🔲 Dry 🔲 Dye Pen	etrant 🗵 Other I	BLACK INK AND WHITE CO	NTRAST
Equipment used	: ☐ UV light ☐ AC yoke ☐			
	No:No:No	D:No: ^{D646}	& 00399_	
Extent:	Welding Areas			
Serial no:	Description:			
DRAW NO-JL11908	RIGHT RAILS OF THE TROLL	EY RUNWAY A	RE LOCATED ON THE ENE	RGYCHAIN MECHAISM
lesults:				
	NDT Inspection was carried			escription
** VISUAL :		and found		
VISUAL:	Visual Inspection of v	velding areas for	und free from surface defe	cts
*** MPI :		ACCEPTI	CD	
	MPI carried out	on available we	elding areas and found :	
			s below (Length= From 2 cm	То 8 ст)
		Need Rep	air	
*** NOTE :				
	ular inspection(10% random che	ck) several cracks	s we found So we decided to i	ncrease percentage of
	ular inspection(10% random chee		s we found So we decided to i	ncrease percentage of
		ck) several cracks	s we found So we decided to i	R-W-2
		ck) several cracks inspection to be	s we found So we decided to i	R-No-1 3cm R-No-2 4cm



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Customer:	SO-019839 SUEZ CANAL CONTAINER TERMINAL	•	22/09/2017 11
Work Location:	SCCT (CR- 16)	Customer W.O. No.:	CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ☒ Other '	AWS D1.1 & ASTM E 709 Edition:	2010 & 2015
Inspection meth	od: 🗆 Wet 🗆 Dry 🗀 Dye Penetrant 🖾 Other Bl	LACK INK AND WHITE CON	ITRAST
Equipment used			
	No:No:No:No:No:	_00399_	
Extent:	Welding Areas		
Serial no:	Description:		
DRAW NO-JL11908	LEFT RAILS OF THE TROLLEY RUNWAY ARE	LOCATED ON THE ENERG	YCHAIN MECHAISM
lesults:			
	NDT Inspection was carried out on available	welding area for above doe	erintion
	and found		with the same of t
** VISUAL:	Viewal Viewal de Cara	1000	
	Visual Inspection of welding areas four	nd tree from surface defect	S
	ACCEPTE	D	
*** MPI :			
	MPI carried out on available wel 06 EA. Crack which referred by arrow as bel		
	Need Repa		cut)
*** NOTE :			
After regular	inspection(10% random check) several cracks inspection to be		increase percentage o
	inspection to be	30 /0	
The second secon	The state of the s		L-No-1 2000



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T.V.I Work Order Customer: Work Location:	No.: SO-019839 SUEZ CANAL CONTAINER TERMI SCCT (CR- 16)		
Specification: Inspection metho Equipment used:	☐ API ☐ DS1 ☐ Customer spec. ☐ d: ☐ Wet ☐ Dry ☐ Dye Penetrant ☐ Of ☐ UV light ☐ AC yoke ☐ DC coil ☐ No:	ther BLACK INK AND WHITE COI	
Extent:	Welding Areas		
Serial no:	Description:		
DRAW NO.JL1190301A	NO-1 RIGHT LEG OF ELECTRIC HOUSE	SIDE	
Results:	.*		
	NDT Inspection was carried out on ava		scription
** VISUAL :	and f	found:	
- INVAL.	Visual Inspection of welding are	as found free from surface defec	ts
area.			
*** MPI :	ACCI	EPTED	
	MPI carried out on availab	le welding areas and found :	
	05 EA. Crack which referred by arroy	w as below (Length = Form 03 cm T	0 6 cm)
	Need	Repair	
		•	
			No:3 R.F.R CRACK SON No=4 CVACK R.F.F. SCM
	Osama Sobhy	Tuboscop	saad
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T.V.I Work Order	No.: SO-019839	Date of Inspection: 23/09/2017
Customer:	SUEZ CANAL CONTAINER TE	RMINAL Inspection Report No.: 13
Work Location:		Customer W.O. No.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec.	☑ Other AWS D1.1 & ASTM.E 709 Edition : 2010 & 2015
Inspection metho	od: 🗵 Wet 🔲 Dry 🔲 Dye Penetrant 🗓	Other BLACK INK AND WHITE CONTRAST
Equipment used:	☐ UV light ☐ AC yoke ☐ DC coil No:No:No:	Other PERMANENT MAGNET No: 0646 & 00399
Extent:	Welding Areas	
Serial no:	Description:	The state of the s
DRAW NO.JL1190301A	NO-2 RIGHT LEG OF DIESEL HOUS	E SIDE
lesults:		-
		available welding area for above description
** VISUAL :	a	nd found :
VISUAL	Visual Inspection of welding	areas found free from surface defects
	A	CCEPTED
*** MPI :		
-	MPI carried out on ava	ilable welding areas and found :
	OO EA Cook which was all	
	US EA. Crack which referred by	arrow as below (Length = Form 2 cm To 5 cm)
	N	leed Repair
		No:1 R.Dinst J CRack2
	Osama Sobhy	Tubo CO M. AsaaD
f this report is only allowed by of TVI representative 3 Rev. 0 Date: 01.01.2011	Supervisor	Technolnspector Egypt Branc



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T.V.I Work Order Customer: Work Location:	No.: SO-019839 SUEZ CANAL CONTAINER 1 SCCT (CR- 16	FERMINAL Inspection	Report No.:	23/09/2017 14 CONTRACT
1	□ API □ DS1 □ Customer spec od: □ Wet □ Dry □ Dye Penetrant	Other BLACK INK AN	D WHITE CON	
Equipment used:	☐ UV light ☐ AC yoke ☐ DC co No:No:No:No:	il	TMAGNET	
	Description:			
lesults:	NO-3 LEFT LEG OF ELECTRIC HO	USE SID		
	NDT Inspection was carried out o	n available welding area and found :	for above desc	cription
** VISUAL :	Visual Inspection of weldin	g areas found free from	surface defects	
*** MPI :		ACCEPTED		
		ailable welding areas an		
		rred by arrow as below (Le		
		Need Repair		
				NO:1 L.E.F. CRack7ch
4.	Osama Sobhy	Tubosk	M. Asa	ad
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T.V.I Work Order	No.: SO-01	9839	Date of Inspection:	23/09/2017
Customer:	SUEZ CANAL CONTA	INER TERMINAL	Inspection Report No	o.: 15
Work Location:			Customer W.O. No.:	
			1987	
Specification:	☐ API ☐ DS1 ☐ Custor	ner spec. 🗵 Other	WS D1.1 & ASTM E 709 Editio	n: 2010 & 2015
Inspection metho	d: ⊠ Wet □ Dry □ Dye Pe	netrant 🗵 Other Bl	ACK INK AND WHITE CO	ONTRAST
Equipment used:	UV light AC yoke			
E 4 4	No:No:N	No: No: 0646.8	00399	
Extent:	Welding Areas			
Serial no:	Description:			
DRAW NO.JL1190301A	NO-4 LEFT LEG OF DIESEL	HOUSE SID		
lesults:				
				-
	NDT Inspection was carried	d out on available and found	welding area for above d	escription
** VISUAL :	ly .			
	Visual Inspection of	welding areas four	d free from surface defe	cts
		ACCEPTED		
*** MPI:				
	MPI carried ou	t on available welc	ling areas and found :	
	US EA. Crack which re	gerred by arrow as b	elow (Length= From 3 cm	Го 6 ст)
		Need Repai	r	

	<u>+</u>			No -
				No-2
				No-2 Crack
	0			No-2 Crack LiDif
	0			No-2 Crack LDF SCM
	0			No-2 Crack LiDir Sign
	0			No=2 Crack LDF SCM
	0 0			No-2 Crack LiDir Scm
	0			No=2 Crack LDF SCM No:2
				No-2 Crack LDF Scm Vo! 2 L.D.R
				No=2 Crack LDif Scm No:2 LDif Scm LDif Scm
				No-2 Crack LiDir Scm Vo! 2 L.D.R ERACKGEM
	0			No=2 Crack LDif Scm IVU! 2 LD.R CRACKGCM
				No-2 Crack LiDir Scm IVU! 2 L.D.R CRack 6cm
	Osama Sobhy		A SM. A	No-2 Crack LDif Scm Vul 2 LD R Rack 6cm
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Customer: Work Location:		MINAL Inspection Report No.:	
WORK LOCATION:	SCCT (CR- 16)	Customer W.O. No.:	CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ▷	Other AWS D1.1 & ASTM E 709 Edition:	2010 & 2015
Inspection meth	od: ⊠ Wet □ Dry □ Dye Penetrant ⊠		
Equipment used			
	No:No:No:	No: 0646.8.00399	
Extent:	Welding Areas		
Serial no:	Description:		
DRAW NO. JL9060305	SHEAVE ASSEMBLY 5		
≀esults:			
	NOTE		
	NDT Inspection was carried out on av	vailable welding area for above des I found :	cription
** VISUAL:	and	rionno:	
	Visual Inspection of welding ar	eas found free from surface def	ects
	ACC	CEPTED	
** MPI			
M	PI carried out on available welding a	areas and found free from surfa	ce crack at
	time of	inspection	
	ACC	CEPTED	
065			
66	Osama Sobhy	Tu bosco M. Asa	aad



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Customer: Work Location:	No.: SO-019839 SUEZ CANAL CONTAINER TE SCCT (CR- 16)	RMINAL Inspection Report No.:	23/09/2017 17 CONTRACT
Specification: Inspection methol Equipment used Extent:	od: 🗵 Wet 🗌 Dry 🔲 Dye Penetrant 🛭	Other PERMANENT MAGNET	
Serial no: DRAW NO-JL9060804	Description: REDUCER BASE		
** VISUAL:		available welding area for above des nd found : ureas found free from surface def	
*** MPI :		CEPTED lable welding areas and found :	
	1 EA, Crack which refer	red by arrow as below (Length 3 cm)	
	1 EA. Crack which refer	red by arrow as below (Length 3 cm)	
	1 EA. Crack which refer	red by arrow as below (Length 3 cm)	



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Non destructive Test (NDT) Report

	1000 (1 1 1 1 1 1 1 1 1	
T.V.I Work Order Customer: Work Location:	SUEZ CANAL CONTAINER TERMINAL Ins	pection Report No.:	23/09/2017 18 CONTRACT
Equipment used:	No:No:No:No: ^{0646.8.00399} _ Welding Areas	INK AND WHITE CON	
	Description:		
Kesults:	WIRE ROPE REEVING SYS		
** VISUAL :	NDT Inspection was carried out on available weldi and found :	ng area for above desc	cription
	Visual Inspection of welding areas found fr	ee from surface defe	ects
ded BATTAT	ACCEPTED		
** MPI MP	carried out on available welding areas and fo time of inspection	und free from surfac	ce crack at
	ACCEPTED		
	773		
	Osama Sobhy	M. Asa	

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Supervisor

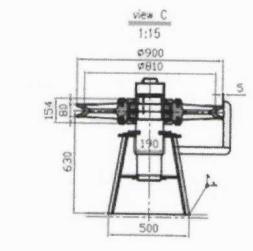




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Non destructive Test (NDT) Report

	Pr No.: SO-019839 Date of Inspection: 24/09/2017
Customer:	SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 19
Work Location:	SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ☐ Other AWS.D1.1.& ASTM.E.709 Edition: 2010.& 2015
Inspection meth	od: ☑ Wet ☐ Dry ☐ Dye Penetrant ☑ Other BLACK INK AND WHITE CONTRAST
Equipment used	
Extent:	No:No:No:No: No: No: No: No: No: No: No: No: No:
Serial no:	Description:
DRAW NO.JL9060303	SHEAVE ASSEMBLY 3
kesults:	
	NDT Inspection was carried out on available welding area for above description
** VISUAL :	and found:
	Visual Inspection of welding areas found free from surface defects
** MPI	ACCEPTED
MI	PI carried out on available welding areas and found free from surface crack at time of inspection ACCEPTED
	view C





Osama Sobhy

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Supervisor

M Asaad

Wallbordinspector

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Non destructive Test (NDT) Report

T.V.I Work Order Customer:	No.: SO-019839 SUEZ CANAL CONTAINER TE	Date o	f Inspection:	24/09/2017
Work Location:	SCCT (CR- 16)		ner W.O. No.:	CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec.	Other AWS D1.1 & A	STM E 709 Edition:	2010 & 2015
Inspection metho	d: 🗆 Wet 🔲 Dry 🗀 Dye Penetrant	Other BLACK INK	AND WHITE CON	TRAST
Equipment used:			IENT MAGNET	
Extent:	No:No:No: Welding Areas	No: 10546 & 103399_		
	Description:			
DRAW NO-JL119060801	DRUM ASS			
Results:		•		
	NDT Inspection was carried out on	available welding a	rea for above des	cription
** VISUAL :	a	nd found:		
	Visual Inspection of welding	areas found free f	rom surface def	ects
	A	CCEPTED		
** MPI	MPI carried out on ave			
	MPI carried out on avai	uable welding are erred by arrow as bel	as and found:	
		eed Kepair		

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Non destructive Test (NDT) Report

T.V.I Work Order Customer:	No.: SO-019839 SUEZ CANAL CONTAINER TER	1	24/09/2017
Work Location:	SCCT (CR- 16)	Proposit Ho	CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec.	☑ Other AWS D1.1.& ASTM E 709 Edition	: 2010 & 2015
Inspection metho	d: ⊠ Wet □ Dry □ Dye Penetrant ⊠	Other BLACK INK AND WHITE CO	NTRAST
Equipment used:		Other PERMANENT MAGNET	
Extent:	No:No:No: Welding Areas	No: ⁰⁶⁴⁶ .&.00399	
Serial no:	Description:		
DRAW NO.JL11901B	LEFT DIESEL HOUSE SIDE MOTOR S	SUPPORT B6 (OUTER)	
Results:		100	
	NDT Inspection was carried out on a	vailable welding area for above de	serintion
** VISUAL :	an	d found:	scription
VISUAL:	Visual Inspection of welding a	reas found free from surface defec	4
	and this pection of welding a	reas toung tree from surface defec	ts
*** MPI :	AC	CEPTED	
	MPI carried out on avail	able welding areas and found :	
	01 EA. Crack which refer	red by arrow as below (Length 2 cm)	
	Ne	ed Repair	
	O PARTIE O P	L.D.S outsik zem.	
E			

Welladnspector Technois Egypt Branch 13



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Non destructive Test (NDT) Report

- 14 1 14 1 - 1 - 1 ·	
I.V.I Work Order	No.: SO-019839 Date of Inspection: 24/09/2017
Customer:	SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 22
Work Location:	SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification:	ADI DOM CONTANTANTANTANTANTANTANTANTANTANTANTANTAN
	□ API □ DS1 □ Customer spec. ☑ Other AWS D1.1 & ASTME 709 Edition: 2010 & 2015
	d: Wet Dry Dye Penetrant Other BLACK INK AND WHITE CONTRAST
Equipment used:	□ UV light □ AC yoke □ DC coil ☑ Other PERMANENT MAGNET No: No: No: No: No: No: No: No: No:
Extent:	Welding Areas
Coming In	
	Description:
Results:	EFT DIESEL HOUSE SIDE MOTOR SUPPORT B6 (IN SIDE)
N	NDT Inspection was carried out on available welding area for above description
** VISUAL:	and found:
	Visual Inspection of welding areas found free from surface defects
	ACCEPTED
*** MPI :	
	MPI carried out on available welding areas and found:
	01 EA, Crack which referred by arrow as below (Length 2 cm)
	Need Repair
	OF A SPINO S
is report is only allowed by	Osama Sobhy Osama Sobhy

Egypt Branch 16



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Non destructive Test (NDT) Report

T.V.I Work Order Customer: Work Location:	No.: SO-019839 SUEZ CANAL CONTAINER TERM SCCT (CR- 16)	Date of Inspection: INAL Inspection Report No. Customer W.O. No.:	
Specification: Inspection metho Equipment used:	•	Other BLACK INK AND WHITE CO	
Extent:	No:No:No:No:	No: 0646 & 00399_	
Serial no:	Description:		
DRAW NO.JL11901A	RIGHT ELECTRIC HOUSE SIDE MOTOR	R SUPPORT B6 (OUTER)	
Results:	2		
** VISUAL:	NDT Inspection was carried out on available and	ailable welding area for above de found :	
	Visual Inspection of welding are	eas found free from surface defec	ts
		EPTED	
*** MPI :	MPI carried out on availal	ole welding areas and found :	
	01 EA. Crack which referre	ed by arrow as below (Length 6 cm)	
	Need	l Repair	
	O Z PMO	R.E.S.	
	Osama Sobhy	Tubossomas	

SD = Shoulder Damage TD = Thread Damage TE = Thread Elongation BW = Box Widening

CO = Corrosion P = Pitting

on W = Washout C = Crack M = Flatspot / Mash RF = Refaced Connection

Egypt Branch 16

B.B = Bore Back S.R.G= Stress Relief Groove



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	() = 0 p 0 2 0
T.V.I Work Order	No.: SO-019839 Date of Inspection: 24/09/2017
Customer:	SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 24
Work Location:	SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ☐ Other AWS D1.1.& ASTM E.709 Edition: 2010 & 2015
Inspection metho	d: ⊠ Wet □ Dry □ Dye Penetrant ⊠ Other BLACK INK AND WHITE CONTRAST
Equipment used:	
	No:No:No:No: 0646 & 00399_
Extent:	Welding Areas
Serial no:	Description:
DRAW NOJL11901A	LEFT ELECTRIC HOUSE SIDE MOTOR SUPPORT B6 (OUTER)
Results:	
	NDT Inspection was carried out an available and the
	NDT Inspection was carried out on available welding area for above description and found :
** VISUAL:	
	Visual Inspection of welding areas found free from surface defects
	ACCEPTED
*** MPI :	
	MPI carried out on available welding areas and found:
	01 EA, Crack which referred by arrow as below (Length 5 cm)
	Nood Danie
	Need Repair
	O I I I I I I I I I I I I I I I I I I I
this report is only allowed by	Osama Sobhy M. Asaad
this report is only allowed by of TVI representative Rev. 0 Date: 01.01.2011	Supervisor Technologies Egypt Branch



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Inspection method: ☐ Wet ☐ Equipment used: ☐ UV light	DS1 Customer spe		Customer W.O. No.:	CONTRACT
	Dry Dye Penetrant	t ⊠ Other B		
No: Extent: Welding A	No:No:		PERMANENT MAGNET	
Serial no: Description: DRAW NO.JL11901A LEFT ELECT		OTOR SUPPO	ORT B6 (IN SIDE)	
Results:			on se (in old)	
NDT Inspec	tion was carried out o	on available and found	welding area for above des	cription
Visua	l Inspection of weldi	ng areas fou	nd free from surface defects	
*** MPI :		ACCEPTE		
	MPI carried out on a	vailable wel	ding areas and found :	
	01 EA. Crack which i	referred by ar	row as below (Length 5 cm)	
		Need Repa	ir	
		MAERSK APL EN		
Osama S	obhy		Lubosc _{M. Asa}	ad



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Inspection method: Wet □ Dry Equipment used: □ UV light □ A No:No: Extent: Welding Areas Serial no: Description:		PERMANENT MAGNET	
Extent: Welding Areas Serial no: Description:			
		Andrea and the	
	ALICE CIDE MOTOR CLIPPO	DT DO (IN OID T	
DRAW NOJL11901A RIGHT DIESEL HO	USE SIDE MOTOR SUPPOI	RT B6 (IN SIDE)	
** VISUAL :	and found		
Visual Insp	ection of welding areas fou	ınd free from surface defect	S
*** MPI :	ACCEPTE	D	
MPLc	arried out on available wel	lding areas and found :	
01 EA	A. Crack which referred by ar	row as below (Length 2 cm)	
	Need Repa	air	
ZPMC	AEREN	3.0.5	
Osama Sobhy		Tubosem Asa	ad



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	The second secon	() - 1 o p o	
Customer:	SO-019839 SUEZ CANAL CONTAINER TERMIN SCCT (CR- 16)	NAL Inspection Report No.	25/09/2017 :: 27 CONTRACT
	API ☐ DS1 ☐ Customer spec. ☐ C Wet ☐ Dry ☐ Dye Penetrant ☐ Oth		
No:	UV light	other PERMANENT MAGNET 2): 0846.8.00399	
Serial no: Descri DRAW NOJL11901A RIGHT Results:	ption: DIESEL HOUSE SIDE MOTOR SUF	PPORT B6 (OUTER)	
** VISUAL :	nspection was carried out on avail and fo	able welding area for above de	scription
Vi	sual Inspection of welding areas	s found free from surface de	fects
*** MPI :	ACCEI	PTED	
	MPI carried out on available	e welding areas and found :	
	01 EA. Crack which referred	by arrow as below (Length 4 cm)	
	Need I	Repair	
Osa	ama Sobhy	Tubos M. As	aad
his report is only allowed by fTVI representative Rev. 0 Date: 01.01.2011	pervisor	Egypt Erane's Inspec	



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T.V.I Work Order Customer: Work Location:	No.: SO-019839 Date of Inspection: 25/09/2017 SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 28 SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ☐ Other AWS D1.1 & ASTME 709 Edition : 2010 & 2015
Inspection method	d: ⊠ Wet □ Dry □ Dye Penetrant ⊠ Other BLACK INK AND WHITE CONTRAST
Equipment used:	
Extent:	No:No:No:No:No: 0646 & 00399_
Extent.	Welding Areas
	Description:
DRAW NO-JL11901-1 L	LEFT ELECTRIC HOUSE SIDE CANTRY TRAVELING MECHANISM - Idel carrage JL-1190106
Results:	•
	NDT Inspection was carried out on available welding area for above description
** VISUAL :	and found:
VISUAU:	
	Visual Inspection of welding areas found free from surface defects
	ACCEPTED
*** MPI:	
	MPI carried out on available welding areas and found:
	01 EA. Crack which referred by arrow as below (Length 12 cm)
	Need Repair
	L.E-GA CRECK 1/200



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Non destructive Test (NDT) Report

	Tion destruct	TVC TCS	(INDI) Kehor	L
T.V.I Work Order Customer: Work Location:	No.: SO-019839 SUEZ CANAL CONTAINER SCCT (CR- 1	RTERMINAL	Date of Inspection: Inspection Report No.: Customer W.O. No.:	25/09/2017 29 CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer sp			
Equipment used:	od: ⊠ Wet □ Dry □ Dye Penetrar □ UV light □ AC yoke □ DC o			ITRAST
Extent:	No:No:No:No:			
Serial no:	Description:			
DRAW NO-HR23100	HEADBLOCK			
Results:				
** VISUAL :	NDT Inspection was carried out	on available v	velding area for above des	cription
	Visual Inspection of weldi	ng areas four	nd free from surface def	ects
		ACCEPTED		
** MPI MP	I carried out on available weld	ding areas an	ion	ce crack at
				SR19
	Osama Sobhy	TIE	bosco M Asa	ad

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Supervisor





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T.V.I Work Order N			on: 25/09/2017
	SUEZ CANAL CUNTAINER 1F		
		RMINAL Inspection Repor	
Work Location:	SCCT (CR- 16)	Customer W.O. N	lo.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec.	Other AWS D1.1.8 ASTM E 709 Ed	lition: 2010 & 2015
Inspection method	I: ⊠ Wet □ Dry □ Dye Penetrant □	Other BLACK INK AND WHIT	E CONTRAST
Equipment used:	UV light AC yoke DC coil		IET
Extent:	Welding Areas		
	escription:		
DRAW NO-JL1190104-A	IGHT DIESEL HOUSE SIDE STEERING	& LOCKING CYLINDER - CYLINDE	ER SUPPORT JL-1190401
Results:			
*	IDT I		
N	DT Inspection was carried out on	available welding area for abo nd found :	ve description
** VISUAL :	4	uu tounu i	
	Visual Inspection of welding a	areas found free from surfa	ce defects
	AC	ССЕРТЕО	
*** MPI :			
	MPI carried out on avai	ilable welding areas and found	
	2 EA Cook ali i c		
	3 EA. Crack which referred by arro	w as below (Length = Form 04 cm	n - 3 cm - 3 cm)
	N	eed Repair	
811 Bto 12 13 WE B13 B1		REC REC	MAERE WAERE WAERE
	Osama Sobhy		M. Asaad



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Non destructive Test (NDT) Report

	No.: SO-019839 Date of Inspection: 25/09/2017
Customer:	SUEZ CANAL CONTAINER TERMINAL Inspection Report No.: 31
Work Location:	SCCT (CR- 16) Customer W.O. No.: CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spec. ☐ Other AWS D1.1.& ASTM E 709 Edition: 2010. & 2015
Inspection method	I: ⊠ Wet □ Dry □ Dye Penetrant ☑ Other BLACK INK AND WHITE CONTRAST
Equipment used:	☐ UV light ☐ AC yoke ☐ DC coil ☑ Other PERMANENT MAGNET
	No:
Extent:	Welding Areas
	Description:
DRAW NO-JL1190104-A	EFT DIESEL HOUSE SIDE STEERING & LOCKING CYLINDER - CYLINDER SUPPORT JL-1190401
Results:	
	NDT Inspection was carried out on available welding area for above description
	and found:
** VISUAL :	
	Visual Inspection of welding areas found free from surface defects
	areas found free from surface defects
*** MPI :	ACCEPTED
WIFE	MPI carried out on available welding areas and found:
	3 EA. Crack which referred by arrow as below (Length = Form 2 cm - 3 cm - 2 cm)
	Need Repair
B11 B10 12 13 812 B13 B	816 R1 82 R1 817 14 15
his report is only allowed by	

SD = Shoulder Damage TD = Thread Damage TE = Thread Elongation BW = Box Widening

CO = Corrosion P = Pitting W = Washout C = Crack M = Flatspot / Mash RF = Refaced Connection

B.B = Bore Back S.R.G= Stress Relief Groove



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T.V.I Work Order Customer:	No.: SO-019839 SUEZ CANAL CONTAINER	Date of Inspection: TERMINAL Inspection Report No	25/09/2017
Work Location:	SCCT (CR- 16		CONTRACT
Specification:	☐ API ☐ DS1 ☐ Customer spe	ec. Other AWS D1.1 & ASTM E.709 Edition	2010 & 2015
Inspection metho	nd: 🗆 Wet 🗀 Dry 🗀 Dye Penetran	t 🗵 Other BLACK INK AND WHITE CO	NTRAST
Equipment used:		coil Other PERMANENT MAGNET	
Extent:	No:No:No: Welding Areas	Mo: nosto grimmaña -	
	Description:		
DRAW NO-JL1190104-A	LEFT ELECTRIC HOUSE SIDE STEE	RING & LOCKING CYLINDER - CYLINDER S	SUPPORT JL-1190401
Results:			
XT.	NDT Inspection was carried out	on available welding area for above do and found :	escription
** VISUAL:		and round:	
	Visual Inspection of welding	ng areas found free from surface de	efects
		ACCEPTED	
*** MPI :	MDI carried out on a		
		available welding areas and found :	
	2 EA. Crack which referred l	by arrow as below (Length = Form 2 cm -	4 cm)
		Need Repair	
811 BIO 12 13 BIS BIT	3 B16 /B3 B2 55 B17 14 15	MAERSK BYALAND	LES.B. 2/ARC 2-469
	Osama Sobhy	Tuboscowe	



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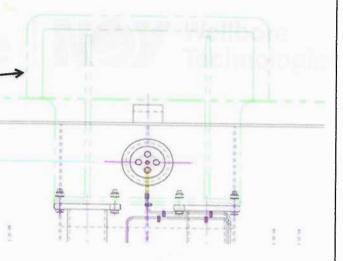
ULTRASONIC TEST (FLAW DETECTION) REPORT

T.V.I Work Order No.: Customer: SUEZ CA Work Location:	ANAL CONTAINER TERMINAL	Date of Inspection: 23/09/2017 Inspection Report No.: 33 Customer W.O. No.: CONTRACT
Inspection method: ⊠ U.T-W.T ⊠	stomer spec.	Edition: 2010
Equipment used: Type: USM-35	Unit No: 14215a	Probe No: 2385 Frequency: 5 MHz
Part Examination: TWO SILL B LOCATIONS Examination Procedure: NOV TUI	D0000000000000000000000000000000000000	Surface Condition: BRUSHED Acceptance Standard: AWS D1-1
Probes Frequency Mhz Single Crystal Twin	n Crystal Calibration Range 0-100 mm	Scanning Procedure ZIG - ZAG
0 5 MHz ⊠	Couplant grease	Test Blocks V2 BLOCK
45		V2 BLOCK
	☐ Equipment	
70 5 MHz 🗵		

DETAILS OF INSPECTION

** UT . SHEAR WAVE (FLAW DETECTION) WAS CARRIED OUT ON TWO SILL BEAMS -DRAW NO. JL-1190305 INSPECTION LOCATIONS
*** NOTE: WALL THICKNESS 12mm .





Results:

**THE ABOVE INSPECTED AREAS FOUND FREE FROM INTERNAL DEFECTS AT THE TIME OF INSPECTION

ACCEPTED

Recommendation:

Osama Sobhy

Supervisor

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QAF 106 Rev. 0 Date: 01.01.2011

Tubosc Ma Asaad

Welberg Inspector

Egypt Branch 1



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ULTRASONIC TEST (FLAW DETECTION) REPORT

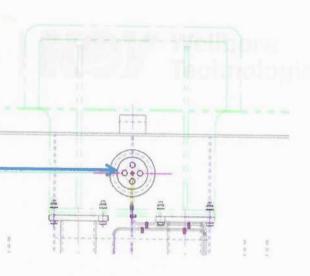
Cust	Work Orde omer: Location:		EZ CANAL C	SO-019839 ONTAINER TERMINAL CCT (CR-16)	Date of Inspection: Inspection Report No.: Customer W.O. No.:	23/09/2017 34 CONTRACT
Inspe	ification: ection meth pment used			LAMINATION TEST	Edition:	2010 Frequency: 5 MHz
	Examination Pro		VO.SILL BEAMS -DECATIONS OV TUBOSCO	NAW NO.JL-1190305 INSPECTION DPE VIII-007	Surface Condition: Acceptance Standard:	BRUSHED AWS D1-1
Probes	Frequency Mhz	Single Crystal	Twin Crystal	Calibration Range 0-100 mm	Scanning Procedur	e 71G - 7AG
						210 210
0	5 MHz	Ø		Couplant grease	Test Blocks	V2 BLOCK

DETAILS OF INSPECTION

** UT . SHEAR WAVE (FLAW DETECTION) WAS CARRIED OUT ON SHAFTS OF SILL BEAMS

*** NOTE: WALL THICKNESS 790 mm .





Results:

**THE ABOVE INSPECTED AREAS FOUND FREE FROM INTERNAL DEFECTS AT THE TIME OF INSPECTION

ACCEPTED

Recommendation:

Osama Sobhy

Supervisor

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QAF 106 Rev. 0 Date: 01.01.2011

Wellbordnspector Technologies Egypt Branch 10

上海振华重工(集团)股份有限公司 ZPMC SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD.

地址。中华人民共和国上海市东方路3261号 ADDRESS: 3261 DONGFANG ROAD,SHANGHAI 200125,P.R.CHINA Postoode(邮稿): 200125 Telephone(电话): +86 21 58396866 Fax(传真): +86 21 58397000 E-mail(电子邮件): mail@zpmc.com

RTG#35 Legs Crack Repair Accomplishment Certificate

ZPMC project number as ZP05-686 (RTG #35 crane)
We, ZPMC hereby certify and confirm that all legs cracks' repair work for (RTG #35) has been accomplished as identified by attached Crack Repair Procedures, and accordingly (RTG #35) is restored to the normal operational conditions hence can be released back to operations.
The issuance of this document triggers the detail Warranty scope and Warranty period reference to contract no(will be amended later)
Date of Certificate is Nov 6th, 2018.
Issued on behalf of ZPMC
Name: XIONG SHAOJUN
Title: Project manger
Date 6/11/2018
Confirmed by Crane and Engineering Services (CES)
Name: Very Granytono
Title: Zny mner
Date 6/11/2018
Received by SCCT
Name: Mohaned M. Doroca
Name: Mohamed M. Downs Title: Teansof Ciril of Grately Marager
Date 6/11/2018

上海振华重工(集团)股份有限公司 SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD.

地址:中华人民共和国上海市东方路3261号 ADDRESS: 3261 DONGFANG ROAD, SHANGHAI 200125, P.R.CHINA Postcode(能統): 200125 Telephone(电话):+86 21 58396868 Fax(传真):+86 21 58397000 E-mail(电子邮件): mail@zpmc.com

RTG#37 Legs Crack Repair Accomplishment Certificate

Date 9/12/2018

上海振华重工(集团)股份有限公司 ZPMC SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD.

地址。中华人民共和国上海市东方路3261号 ADDRESS: 3261 DONGFANG ROAD,SHANGHAI 200125,P.R.CHINA Postoode(邮稿): 200125 Telephone(电话): +86 21 58396866 Fax(传真): +86 21 58397000 E-mail(电子邮件): mail@zpmc.com

RTG#35 Legs Crack Repair Accomplishment Certificate

ZPMC project number as ZP05-686 (RTG #35 crane)
We, ZPMC hereby certify and confirm that all legs cracks' repair work for (RTG #35) has been accomplished as identified by attached Crack Repair Procedures, and accordingly (RTG #35) is restored to the normal operational conditions hence can be released back to operations.
The issuance of this document triggers the detail Warranty scope and Warranty period reference to contract no(will be amended later)
Date of Certificate is Nov 6th, 2018.
Issued on behalf of ZPMC
Name: XIONG SHAOJUN
Title: Project manger
Date 6/11/2018
Confirmed by Crane and Engineering Services (CES)
Name: Very Granytono
Title: Zny mner
Date 6/11/2018
Received by SCCT
Name: Mohaned M. Doroca
Name: Mohamed M. Downs Title: Teansof Ciril of Grately Marager
Date 6/11/2018

上海振华重工(集团)股份有限公司 SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD.

地址:中华人民共和国上海市东方路3261号 ADDRESS: 3261 DONGFANG ROAD, SHANGHAI 200125, P.R.CHINA Postcode(能統): 200125 Telephone(电话):+86 21 58396868 Fax(传真):+86 21 58397000 E-mail(电子邮件): mail@zpmc.com

RTG#37 Legs Crack Repair Accomplishment Certificate

Date 9/12/2018



INSPECTION DEFECT REPORT

Date of Inspection	3/3/2020	Report Number	SCCT-CR/30
Client	Suez Canal Container Terminal (SCCT)	Location	Port Said Eastern Port
Identification Number	CR 30	Date of Next Inspection	N/A

Description: First Attempt of each 3-month visual checking and measuring of randomly chosen cracks located at 4 RTG {Rubber Tire Gantry Crane} legs. As per SCCT request.

Rubber Tire Gantry Crane S/N: CR30

- ➤ Left Land Sea Side Leg {LLS}:
 - Crack No. (1): Length: 3.0 cm, Crack No. (2): 4.0 cm, Crack No. (3): 4.5 cm, Crack No. (4): 3.0 cm
- Left Sea Side {LSS}
 - Crack No. (9): Length: 5.0 cm, Crack No. (10): 5.0 cm, Crack No. (11): 3.0 cm, Crack No. (12): 3.0 cm
- ➤ Right Sea Side Leg {RSS}:
 - Crack No. (17): Length: 5.0 cm, Crack No. (18): 5.0 cm, Crack No. (19): 6.5 cm
- ➤ Right Land Side {RLS}
 - Crack No. (23): 2.5 cm, Crack No. (24): 2.0 cm, Crack No. (25): 3.0 cm

OBSERVATION

	OBSERVATION				
Crack No.:	Length (cm)	Location	Figure No.:	CORRECTIVE ACTION	
1	3.0	{LLS}	1	As per SCCT Recommendations	
2	4.0	{LLS}	2	As per SCCT Recommendations	
3	4.5	{LLS}	3	As per SCCT Recommendations	
4	3.0	{LLS}	4	As per SCCT Recommendations	



				•
9	5.0	{LSS}	9	As per SCCT Recommendations
10	5.0	{LSS}	10	As per SCCT Recommendations
11	3.0	{LSS}	11	As per SCCT Recommendations
12	3.0	{LSS}	12	As per SCCT Recommendations
17	5.0	{RSS}	17	As per SCCT Recommendations
18	5.0	{RSS}	18	As per SCCT Recommendations
19	6.5	{RSS}	19	As per SCCT Recommendations
23	2.5	{RLS}	23	9 As per SCCT Recommendations
24	2.0	{RLS}	24	As per SCCT Recommendations
25	3.0	{RLS}	25	As per SCCT Recommendations







Figure No. (1)

Figure No. (2)







Figure No. (4)







Figure No. (9)

Figure No. (10)







Figure No. (12)



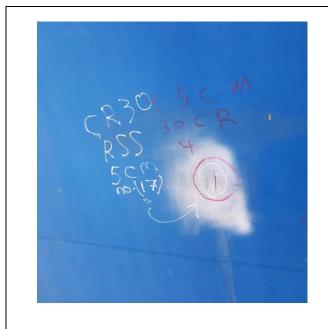




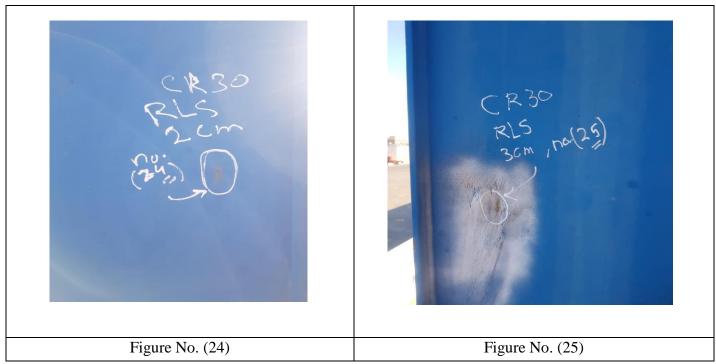
Figure No. (17) Figure No. (18)





Figure No. (19) Figure No. (23)





Inspector Name / Signature	Authorized Name / Signature	Company Stamp
Kareem Mohsen	Mohamed Serafy	



INSPECTION DEFECT REPORT

Date of Inspection	2/3/2020	Report Number	SCCT-CR/22
Client	Suez Canal Container Terminal (SCCT)	Location	Port Said Eastern Port
Identification Number	CR 22	Date of Next Inspection	N/A

Description: First Attempt of each 3-month visual checking and measuring of randomly chosen cracks located at 4 RTG {Rubber Tire Gantry Crane} legs. As per SCCT request.

Rubber Tire Gantry Crane S/N: CR22

➤ Right Sea Side Leg {RSS}:

• Crack No. (1): Length: 3.0 cm

➤ Right Land Side {RLS}

• Crack No. (2): 4.0 cm

➤ Left Land Side Leg {LLS}:

• Crack No. (3): 3.0 cm

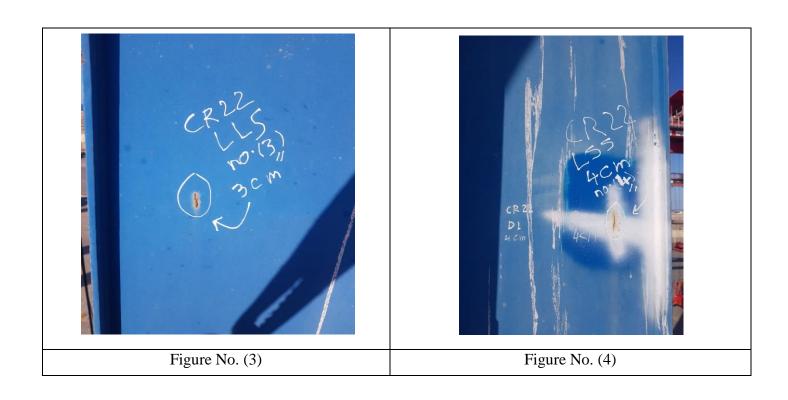
➤ Left Sea Side {LSS}

• Crack No. (4): 4.0 cm, Crack No. (5): 2.0 cm

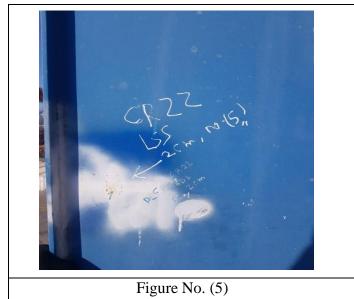
OBSERVATION						
Crack No.:	Length (cm)	Location	Figure No.:	CORRECTIVE ACTION		
1	3.0	{RSS}	1	As per SCCT Recommendations		
2	4.0	{RLS}	2	As per SCCT Recommendations		
3	3.0	{LLS}	3	As per SCCT Recommendations		
4	4.0	{LSS}	4	As per SCCT Recommendations		
5	2.0	{LSS}	5	As per SCCT Recommendations		











	Authorized Name / Signature	Company Stamp
Kareem Mohsen	Mohamed Serafy	



INSPECTION DEFECT REPORT

Date of Inspection	9/3/2020	Report Number	SCCT-CR/26
Client	Suez Canal Container Terminal (SCCT)	Location	Port Said Eastern Port
Identification Number	CR 26	Date of Next Inspection	N/A

Description: First Attempt of each 3-month visual checking and measuring of randomly chosen cracks located at 4 RTG {Rubber Tire Gantry Crane} legs. As per SCCT request.

Rubber Tire Gantry Crane S/N: CR26

➤ Right Sea Side Leg {RSS}:

• Crack No. (1): Length: 3.0 cm, Crack No. (2): Length: 2.5 cm

Right Land Side {RLS}

• No similar Cracks found at the time of inspection.

➤ Left Land Side Leg {LLS}:

• No similar Cracks found at the time of inspection.

➤ Left Sea Side {LSS}

• Crack No. (3): 1.25 cm

	OBSERVATION				
Crack No.:	Length (cm)	Location	Figure No.:	CORRECTIVE ACTION	
1	3.0	{RSS}	1	As per SCCT Recommendations	
2	2.5	{RSS}	2	As per SCCT Recommendations	
3	1.25	{LSS}	3	As per SCCT Recommendations	

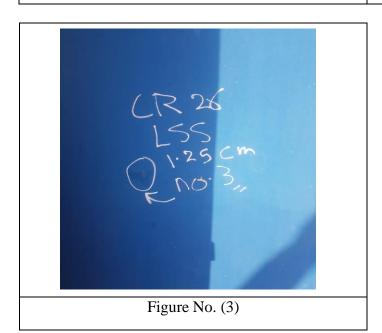






Figure No. (1)

Figure No. (2)



Inspector Name / Signature	Authorized Name / Signature	Company Stamp
Kareem Mohsen	Mohamed Serafy	

上海振华重工(集团)股份有限公司 SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD.

地址:中华人民共和国上海市东方路3261号 ADDRESS: 3261 DONGFANG ROAD, SHANGHAI 200125, P.R.CHINA Telephone(电话):+86 21 58396668 Fax(传真):+86 21 58397000 E-mail(电子邮件): mail@zpmc.com

Postcode(邮编): 200125

RTG#36 Legs Crack Repair Accomplishment Certificate

ZPMC project number as ZP05-686 (RTG #36 cranes)

We, ZPMC hereby certify and confirm that all legs cracks' repair work for (RTG #36) has been accomplished as identified by attached Crack Repair Procedures, and accordingly (RTG #36) is restored to the normal operational conditions hence can be released back to operations.

The issuance of this document triggers the detail Warranty scope and Warranty period reference to contract no. (will be amended later) Date of Certificate is August the 1th, 2018.

Issued on behalf of Z

Confirmed by Crane and Engineering Services (CES)

Title: OA inspector of CES

Date 20 1. 8. 28

Received by SCCT

Name: Mohamed M. Dorra
Title: Ggineering Tech eff. Mng.
Date 28/08/2018

上海振华重工(集团)股份有限公司 ZPMC SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD. ZPMC

地址:中华人民共和国上海市东方路3261号 ADDRESS: 3261 DONGFANG ROAD, SHANGHAI 200125, P.R. CHINA Postcode (的稿): 200125 Telephone (电话): +86 21 58396666 Fax (传真): +86 21 58397000 E-mail(电子邮件): mail@zpmc.com

RTG#33 Legs Crack Repair Accomplishment Certificate

ZPMC project number as ZP05-686 (RTG #33 cranes)

We, ZPMC hereby certify and confirm that all legs cracks' repair work for (RTG #33) has been accomplished as identified by attached Crack Repair Procedures, and accordingly (RTG #33) is restored to the normal operational conditions hence can be released back to operations.

The issuance of this document triggers the detail Warranty scope and Warranty period reference to contract no. _____(will be amended later)

Date of Certificate is January the 22th, 2019.

Issued on behalf of ZPMC

Name Sun Jin liang

Title: Voject ///al

Date 2014.2.25

Confirmed by Crane and Engineering Services (CES)

Name:

Title

- . .

Date______i

Received by SCCT

Name:

Title: ARR Civil Afaculty Mug.

Date 25 02 2019

上海振华重工(集团)股份有限公司 SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD.

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Postcode(邮编): 200125

RTG#36 Legs Crack Repair Accomplishment Certificate

ZPMC project number as ZP05-686 (RTG #36 cranes)

We, ZPMC hereby certify and confirm that all legs cracks' repair work for (RTG #36) has been accomplished as identified by attached Crack Repair Procedures, and accordingly (RTG #36) is restored to the normal operational conditions hence can be released back to operations.

The issuance of this document triggers the detail Warranty scope and Warranty period reference to contract no. (will be amended later) Date of Certificate is August the 1th, 2018.

Issued on behalf of Z

Confirmed by Crane and Engineering Services (CES)

Title: OA inspector of CES

Date 20 1. 8. 28

Received by SCCT

Name: Mohamed M. Dorra
Title: Ggineering Tech eff. Mng.
Date 28/08/2018

上海振华重工(集团)股份有限公司 ZPMC SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD. ZPMC

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RTG#17 Legs Crack Repair Accomplishment Certificate

ZPMC project number as ZP05-586 (RTG #17 crane)

We, ZPMC hereby certify and confirm that all legs cracks' repair work for (RTG #17) has been accomplished as identified by attached Crack Repair Procedures, and accordingly (RTG #17) is restored to the normal operational conditions hence can be released back to operations.

The issuance of this document triggers the detail Warranty scope and Warranty period reference to contract no. _____(will be amended later)

Date of Certificate is February 25th, 2019.

Issued on behalf of ZPMC

Name: Sur Jia liang 47 77

Title: Project Manger

Date 2019, 7,25

Confirmed by Crane and Engineering Services (CES)

Name:

Title: Engineer

Date 2019-02-25

Received by SCCT

Name: M. Dorra

Title: U. f. Civil facility Mug.

Date 25-02-2019